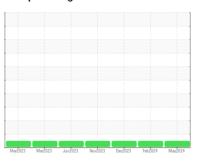


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 912087 Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

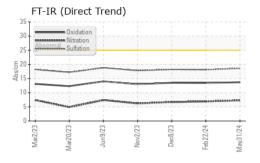
Fluid Condition

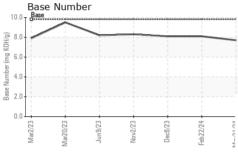
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

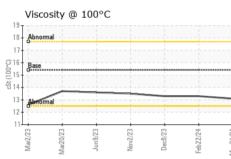
LIK)		Mar2023	Mar2023 Jun2023	Nov2023 Dec2023 Feb2024	May2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0113900	GFL0093772	GFL0093768	
Sample Date		Client Info		31 May 2024	22 Feb 2024	08 Dec 2023	
Machine Age	hrs	Client Info		3540	2880	2369	
Oil Age	hrs	Client Info		0	13821	0	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>5	<1.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	NEG	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METAL	.S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>100	15	19	20	
Chromium	ppm	ASTM D5185m	>20	1	3	3	
Nickel	ppm	ASTM D5185m	>4	0	<1	<1	
Titanium	ppm	ASTM D5185m		0	<1	<1	
Silver	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	6	13	14	
Lead	ppm	ASTM D5185m	>40	0	0	<1	
Copper	ppm	ASTM D5185m	>330	<1	<1	<1	
Tin	ppm	ASTM D5185m		0	<1	<1	
Vanadium	ppm	ASTM D5185m		0	<1	0	
Cadmium	ppm	ASTM D5185m		0	<1	<1	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	0	4	3	
Barium	ppm	ASTM D5185m	0	0	<1	12	
Molybdenum	ppm	ASTM D5185m	60	54	59	58	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	837	851	878	
Calcium	ppm	ASTM D5185m	1070	1082	991	1000	
Phosphorus	ppm	ASTM D5185m	1150	988	1005	1017	
Zinc	ppm	ASTM D5185m	1270	1174	1180	1185	
Sulfur	ppm	ASTM D5185m	2060	3292	3200	3074	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	0	5	6	
Sodium	ppm	ASTM D5185m		4	2	2	
Potassium	ppm	ASTM D5185m	>20	17	28	36	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.4	0.4	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	7.3	6.9	6.7	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	18.1	18.2	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.7	13.4	13.5	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.7	8.1	8.1	
(511)						5.1.	



OIL ANALYSIS REPORT



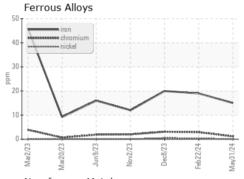


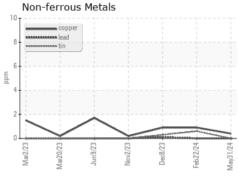


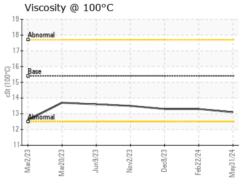
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

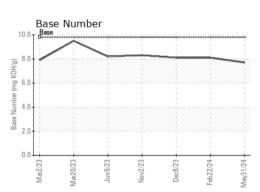
FLUID PROPI	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.1	13.3	13.3

GRAPHS













Certificate 12367

Laboratory Sample No. Lab Number : 06198876

Test Package : FLEET

: GFL0113900 Unique Number : 11060999

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

: 04 Jun 2024 : 05 Jun 2024 Diagnosed

: 05 Jun 2024 - Wes Davis

US 24382 Contact: CHARLES CORVIN

2390 North 4th Street

Wytheville, VA

GFL Environmental - 029 - Wytheville

charles.corvin@gflenv.com;canastasio@wearcheckusa.com

T: (276)223-4476 F: (276)223-1283

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)